Test Friday on 5.5-5.9

5.5 Roots of Real Numbers
- principal root (positive) when simplifying
- breakdown to primes and look for groups of 2 or 3 or 4--whatever the index is

5.6 Radical Expressions
- properties to help simplify
- break apart products and quotients
- break apart the index $\sqrt[3]{\quad} = \sqrt[4]{\quad}$
- Rationalize the denominator
- add/subtract--combine like terms

5.7 Rational Exponents
- numerator is power
- denominator is index

5.8 Radical Equations and inequalities
- Isolate radical, "square" both sides, solve, and check
- With inequalities, set radicand ≥ 0, use number line to check

5.9 Complex Numbers
- $i^2 = -1$
- $\sqrt{-1} = i$
- no imaginary #s in denominator
- simplify before multiply

5.5 p278 #s 36-41
p838-839
5.6 #s 2, 4, 6, 14, 18, 22, 24, 30
5.7 #s 1, 3, 5, 6, 17, 20, 21, 24, 27-29
5.8 #s 2, 3, 8, 13
5.9 #s 1, 2, 4, 8, 10, 18, 19

Answers will be on wiki